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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq
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Perfect score:
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                                                                                                                             Score
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re greater than or equal to the score of the result being printed,
is derived by analysis of the total score distribution.
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length: 2000000000
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       /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq:*
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/cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq:*
/cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*
/cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq:*
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US-10-257-166B-113
US-09-662-254B-26
US-10-603-114-707
PCT-US03-07174-10
US-09-662-254B-23
US-09-662-254B-27
US-09-662-254B-27
US-09-662-254B-27
US-09-662-254B-27
US-60-480-590-638
US-09-662-254B-33
US-09-662-254B-33
US-09-662-254B-24
US-09-662-254B-25
US-09-662-254B-26
US-10-603-114-1761
US-09-662-254B-26
US-10-603-114-1761
US-09-662-254B-26
US-10-603-114-1761
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US-09-662-254B-27
US-10-603-114-615
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4981.082 Million cell updates/sec
Sequence 41, Appl
Sequence 27, Appl
Sequence 615, App
Sequence 10012, A
Sequence 113, App
Sequence 26, Appl
Sequence 27, Appl
Sequence 33, Appl
Sequence 23, Appl
Sequence 174, App
Sequence 174, App
Sequence 27, Appl
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Sequence 27, Appl
Sequence 28, Appl
Sequence 24, Appl
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Sequence 25, Appl
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Sequence 27, Appl
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Sequence 28, Appl
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Sequence 21, Appl
Sequence 21, Appl
Sequence 1761, Appl
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Sequence 1206, Appl
Sequence 1206, Appl
Sequence 12206, Appl
Sequence 5526, Appl
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US-09-947-914-41/c
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Best Local Sim
Matches 156;
               4231717 TAA 4231715
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                                            2014 GAA 2016
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## ALIGNMENTS

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; FEATURE:

, NAME/KEY: misc_feature

LOCATION: (1)...(13831263)

; OTHER INFORMATION: n = A,T,C

US-09-947-914-41
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GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig
TITLE OF INVENTION: COLLECTION OF SINGLE NUCLEOTIDE POLYMORPHISM
TITLE OF INVENTION: 21, METHODS OF DETECTION, AND USES THEREOF
FILE REFERENCE: CL001298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/947,914
CURRENT FILING DATE: 2001-09-07
NUMBER OF SEQ ID NOS: 75
SEQ ID NO 41
LENGTH: 13831263
TYPE: DNA
ORGANISM: HUMAN
                                                                                                                                                                                                                                                                                                                         1954 GATGGTAAAGCAACCATTAATTTAAAAACATGGGGAAAGTTTAACACTTCAAGGTTTACCA
                                                                                                       1835 TGACTGGTTTAGCTGGTGACAGAACTAAAGATTTCCATTTTGAAATTGAATTAAAAAATA 1894
                                                                                                                                                                                                                                                                                    1775 GTATGGAAGATAAAAAAGATTATACCTGTAACTCATAATTTAACATTGAGAAAAAACGG 1834
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                          2.5%; Score 57.4; DB 5; Length 13831263;
51.5%; Pred. No. 0.00063;
ative 0; Mismatches 146; Indels 1; G
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; ORGANISM: Amsacta
US-09-662-254B-27
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US-09-662-254B-27
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Best Local
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APPLICANT: Li, Yi
APPLICANT: Bawden, Alison Louise
APPLICANT: Bawden, Alison Louise
TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous
TITLE OF INVENTION: Vertebrate Cells
FILE REFERENCE: UF-221C1XC1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/662,254B CURRENT FILING DATE: 2000-09-14 PRIOR APPLICATION NUMBER: 09/086,651 PRIOR FILING DATE: 1998-05-29 PRIOR APPLICATION NUMBER: 60/224,479 PRIOR FILING DATE: 2000-08-10
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                  AAGTTTATTATCATT - - AAAAATTGAAAATATGCATATAGATAATATTGAAAAAATCAGT
                                              GCTCAAGATAGTAATCCTCCACAGCTAACTGACCTTGATTTCTTTATTCCGAATAACAAT
                                                                                                            CATGGTTTTGGAGACATGAATGATAGTACTTTAGCAGTTGCTAAAATCCTTGTAGAATAC
                                                                                                                                              TAATAATTATATTGATTTTAAATTATTTAAAAACTTGTTAAATATAAAAATATATGAAATT
                                                                                                                                                                               TTAGCAATATATTATTTCACTGATAGTGCTGAATTAGATAAGGATAAACTAAAAGACTAT
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                                                                                                                                                                                                                                                                                                GATCCTGACACTT----TCTTAAAACATATCAAAAAAGTAATTGAGAAGGGTTACAGGGAA 1476
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Conservative
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Pred. No. 0.00015;
0; Mismatches 534
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849
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PRIOR APPLICATION NUMBER: US/09/543,681
PRIOR FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 615
LENGTH: 1575
TYPE: DNA
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US-10-603-114-615
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GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709,1002-001
CUGRENT APPLICATION NUMBER: US/10/603,114
CURRENT FILING DATE: 2003-06-24
CURRENT FILING DATE: 2003-06-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 2.3
Best Local Similarity 45.6
Matches 187; Conservative
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                          TGAAATTAAATAAATAATAAGCAAGAATTGCTTTCTCAAACTGTTAAAACAGATAA 1934
                                                                                                                                                                                                                                                     AGATTTAGTTGATATTATTCGTATGGAAGATAAAAAAGAAGTTATACCTGTAACTCATAA 1814
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Pred. No. 0.00042;
0; Mismatches 223;
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RESULT 5
US-10-257-166B-113/c
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CURRENT FILING DATE: 2003-02-04
PRIOR APPLICATION NUMBER: 09/785,276
PRIOR FILING DATE: 2003-02-16
PRIOR FILING DATE: 2003-02-17
PRIOR PPLICATION NUMBER: 60/183,319
PRIOR FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: 60/189,862
PRIOR FILING DATE: 2000-03-16
PRIOR APPLICATION NUMBER: 60/207,454
PRIOR APPLICATION NUMBER: 60/207,454
PRIOR APPLICATION NUMBER: 60/207,454
PRIOR APPLICATION NUMBER: 60/211,314
PRIOR FILING DATE: 2000-05-25
PRIOR FILING DATE: 2000-06-09
PRIOR FILING DATE: 2000-06-09
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US-10-357-930-10012
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SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 10012
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APPLICANT: Endege, Wilson
APPLICANT: Endege, Wilson
APPLICANT: Monahan, John
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
TITLE OF INVENTION: HUMAN PROSTATE CANCER
FILE REFERENCE: MRI-007BCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/255,281 PRIOR FILING DATE: 2000-12-13
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Pred. No. 0.00033;
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US-09-662-254B-26/c

: Sequence 26, Application US/09662254B

; GENERAL INFORMATION:
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; OTHER INFORMATION: chemically treated genomic DNA US-10-257-166B-113
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APPLICANT: OLEK, Alexander
APPLICANT: PIEPENBROCK, C.
APPLICANT: BERLIN, Kurt
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PRIOR APPLICATION NUMBER: DE 10043826.1
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 178
SEQ ID NO 113
LENGTH: 6106
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CURRENT FILING DATE: 2002-10-07
PRIOR APPLICATION NUMBER: PCT/EP01/07470
PRIOR FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: DE 10032529.7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens FEATURE:
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                     2084 TAGCAAATGCTACAGTTTCAAAAACAGGAATAACAAGTGA 2123
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                                                                              CTTACCTTGTCAAAGAAACAGATTCTGAAGGCTATAAGGTTAAAGTTAATAGCCAAGAAG
                                                                                                                                                               CAACCATTAATTTAAAAACATGGGGAAAGTTTAACACTTCAAGGTTTACCAGAAGGTTATT
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RESULT 7
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; ORGANISM: Amsacta moorei entomopoxvirus
US-09-662-254B-26
                        Sequence 707, Application US/10603114
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/10/603,114
CURRENT FILING DATE: 2003-06-24
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Matches
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LENGTH: 50000
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PRIOR FILING DATE: 1998-05-29
PRIOR APPLICATION NUMBER: 60/224,479
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 80
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APPLICANT: Bawden, Alison Louise
TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous
TITLE OF INVENTION: Vertebrate Cells
FILE REFERENCE: UF 221CIXC1
 PRIOR
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                 PRIOR
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mes 222; Conserv
APPLICATION NUMBER: US/09/543,681 FILING DATE: 2000-04-05
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Pred. No. 0.0023;
0; Mismatches 283;
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; TYPE: DNA ; ORGANISM: Anopheles gambiae PCT-US03-07174-10
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PCT-US03-07174-10/c
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                                                                                                                              Query Match
Best Local s
Matches 266
                                                                                                                                                                                                                                                                              SEQ ID NO 10
LENGTH: 4985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 10. Application PC/TUS0307174
GENERAL INFORMATION:
APPLICANT: VANDERBILT UNVERSITY
TITLE OF INVENTION: ARRESTIN GENE, POLYPEPTIDE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 707
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                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 10/094,240 PRIOR FILING DATE: '2002-03-08
                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: N9267
CURRENT APPLICATION NUMBER: PCT/US03/07174
CURRENT FILING DATE: 2003-05-12
                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 27
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GACCTCTTTAAATATACTGTGAAACCAAGAGATACCGATCCTGACACTTTCTTAAAACAT 1443
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nilarity 43.9%;
Conservative
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Pred. No. 0.0008;
D; Mismatches 191;
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                                                                                                                                                                        Length 4985;
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SEQ ID NO 23
LENGTH: 50000
TYPE: DNA
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GENERAL INFORMATION:

APPLICANT: MOyer, Richard W.
APPLICANT: Li, Yi
APPLICANT: Li, Yi
APPLICANT: Bawden, Alison Louise
TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous
TITLE OF INVENTION: Vertebrate Cells
FILE REFERENCE: UF-21C1XC1
CURRENT APPLICATION NUMBER: US/09/662,254B
CURRENT FILING DATE: 2000-09-14
                                                                                                                                                                                                                              Matches 282;
                                                                                                                                                                                                                                               Query Match
Best Local
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PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 80
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                                                                                                                                                                                                                                                                                                                     ORGANISM: Amsacta moorei entomopoxvirus
                                                                                                                                                                                                                                                 Local Similarity
 35672 ATCAATAAAAATTTTATGGCATACCACATAATATAAATTATGCATTCAGATTTATAGAT
                                                                                                                                                    35792 ACATATATTTACATTTAATAAATATATAGAATTATTAGATTATAATTATGAATATAAT
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Pred. No. 0.0095;
0; Mismatches 347;
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; ORGANISM: Amsacta moorei entomopoxvirus
US-09-662-254B-25
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US-09-662-254B-25/c
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LENGTH: 50000
                                                                                                                                                                                                                        Query Match 2.2%; Score 49.8; DB 5; Best Local Similarity 43.4%; Pred. No. 0.0095; Matches 397; Conservative 0; Mismatches 502;
                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: MOYET, Richard W.
APPLICANT: Bawden, Alison Louise
APPLICANT: Bawden, Alison Louise
APPLICANT: Bawden, Alison Louise
TITLE OF INVENTION: Waterials and Methods for Delivery and Expression of Heterolog
TITLE OF INVENTION: Vertebrate Cells
TILE REFERENCE: UF-221CIXC1
CURRENT APPLICATION NUMBER: US/09/662,254B
CURRENT FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 09/086,651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 25, Application US/09662254B GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR FILING DATE: 2000-(NUMBER OF SEQ ID NOS: 80
                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version
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                                 1424 CTGACACTTTCTTAAAACATATCAAAAAAGTAATTGAGAAGGGTTACAGGGAAAAAAGGAC 1483
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                                                                                                             1364 ACACTCATATTGCAGGTCGTGACCTCTTTAAATATACTGTGAAACCAAGAGATACCGATC
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RESULT 11
US-10-603-113-3504
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                                                                  APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT FILING DATE: 2003-06-24
PRIOR APPLICATION NUMBER: US/09/248,796
PRIOR APPLICATION NUMBER: US/09/248,796
PRIOR FILING DATE: 1999-02-12
NUMBER OF SEQ ID NO3504
LENGTH: 1233
TYPES. NUMBER: US/09/248,796
PRIOR FILING DATE: 1999-02-12
                                                                                                                                                                                                                               Sequence 3504, Application US/10603113 GENERAL INFORMATION:
NAME/KEY: unsure
LOCATION: (94),(195)
                             FEATURE:
                                                         TYPE: DNA
                                            ORGANISM: Candida albicans
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Best Local
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; OTHER INFORMATION: Identity of nucleotide sequences at the above locations \textsc{US-10-603-113-3504}
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1842 TTTAGCTGGTGACAGAACTAAAGATTTCCATTTTGAAATTGAATTAAAAAAATAATAAGCA 1901
ATTATTAACTAAAGCTTGT
                                                                                                                            AAATAATAAAGAGCCTGTTGTTCCTACAGGAGTTGATCAAAAGATCAATGGCTATCTAGC 2201
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                                                                                                AATTAATGAAGCAACGGTTATATCTAGAGAATCTTTAGAAAAAATTGGTGAAGCTGAAGA 974
                                                                                                                                                                                                TGAAATTGCTTCTAGATTACAAGAAAAACTCGATAGATTTTCTGTTGGAGCATTACCATT
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Pred. No. 0.0037;
D; Mismatches 20
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; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 178
; SEQ ID NO 174
; LENGTH: 9728
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-10-257-166B-174/c
Sequence 174, Application US/10257166B
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: OLEK, Alexander
APPLICANT: PIEPENBROCK, Christian
APPLICANT: BERLIN, Kurt
APPLICANT: BERLIN, Kurt
TITLE OF INVENTION: Method and Nucleic Acids for Analysing
TITLE OF INVENTION: Genes Implicated in Pharmacogenomics
FILE REFERENCE: 5013.101
CURRENT APPLICATION NUMBER: US/10/257,166B
CURRENT FILING DATE: 2002-10-07
PRIOR APPLICATION NUMBER: PCT/EP01/07470
PRIOR APPLICATION NUMBER: DE 10032529.7
PRIOR APPLICATION NUMBER: DE 10032529.7
                                                                                                                                                                                                OTHER INFORMATION: chemically treated
1866 ТТТССАТТТТGAAATTGAATTAAAAAATAATAAGCAAGAATTGCTTTCTCAAACTGTTAA 1925
                                                                                      Conservative
                                                                                                         2.1%;
                                                                                  Score 48; DB 6;
Pred..No. 0.016;
D; Mismatches 120
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US-09-662-254B-27/c
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; ORGANISM: Amsacta
US-09-662-254B-27
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Best Local Simi
Matches 311;
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LENGTH: 32392
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TITLE OF INVENTION: Materials and Methods for
TITLE OF INVENTION: Vertebrate Cells
FILE REFERENCE: UF-221C1XC1
CURRENT APPLICATION NUMBER: US/09/662,254B
CURRENT FILING DATE: 2000-09-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 09/086.651
PRIOR FILING DATE: 1998-05-29
PRIOR APPLICATION NUMBER: 60/224,479
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 80
SOFTWARE: Patentin version 3.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Moyer, Richard W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
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AAAGCAACCATTAATTTAAAACATGGGGAAAGTTTAACACTTCAAGGTTTACCAGAAGGT
                                                 TTTAAATATGAATTTCAGTCTAGAGTAATAAATTTTACAAATACACATGACCATGAAACA 15833
                                                                                                                                                    TTAGCT----GGTGACAGAACTAAAGATTTCCATTTTGAAATTGAATTAAAAAATAATAAG
                                                                                                                                                                                       AATTTTATTAAAATTAATTATAATTTTCATAAATAATATTTCGCTTTATAATTTTTAAA 1595
                                                                                                                                                                                                                       GATAAAAAAGAAGTTATACCTGTAACTCATAATTTAACATTGAGAAAAACGGTGACTGGT 1842
                                                                                                                                                                                                                                                          AATGTTTTTAAATATAATAATAGTATAATACATGATAAAAAATGTTTTATTTGTGTATAC 1601:
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                                                                                  ATAAATTTATATTTAAAATTGATGATAATGTTTTAGATATACCATTGAAAAATATAAAT 1589:
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Pred. No. 0.
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RESULT 15
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SEQ ID NO 4755
LENGTH: 642
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches 150;
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                                                                                                                                                                                                                                                                          GAATGAACAGTCATCAAATGAAGATTTTAATCAAAACAATAACAATAACAATTAACAATAA
                                                                                                                                                                                                                                                                                                          ACATGGGGAAAGTTTAACACTTCAAGGTTTACCAGAAGGTTATTCTTACCTTGTCAAAGA 2039
                                                                                                  TGTTCCTACAGGAGTTGATCAA 2181
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                                                                    TGATCTACAAGAAGAAGAA
                                                                                                                                      TAATGAACTTCAAGAATCAATAAAGAATGATAATAACAATAACAATAATAATAATGGTAA 614
                                                                                                                                                                    TTCAAAAACAGGAATAACAAGTGATGAGACACTTGCTTTTGAAAATAATAAAGAGCCTGT 2159
                                                                                                                                                                                                       CAATACTACCATCAGCAATAATGATAATGAAAATGGTAATACTATTAGTAGTAGTAAATC
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Sequence 4755, Application US/10603113
GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBI
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/10/603,113
CURRENT FILING DATE: 2003-06-24
PRIOR APPLICATION NUMBER: US/09/248,796
PRIOR FILING DATE: 1999-02-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15832 AAAATAATTTCTAAATTAATAAAAAAATAGATATGATAGATTTTATAAATTTTGATAAAAAT 15773
                                    1920 TGTTAAAACAGATAAAACAAACCTCGAATTTAAAGATGGTAAAGCAACCATTAATTTAAA 1979
                                                                                                                                                             1860 TAAAGATTTCCATTTTGAAATTGAATTAAAAAATAAGCAAGAATTGCTTTCCCAAAC 1919
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                                                                                                                         GAAGTAGCAAATGCTACAGTTTCAAAAACAGGAATAACAAGTGATGAGACACTTGCTTTT 2139
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                                                                                                                                                                                                                                                  Score 46.8; DB 6;
Pred. No. 0.014;
0; Mismatches 172;
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APPLICANT: Monsanto
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APPLICANT: Monsanto
APPLICANT: Laurie, Cathy C
APPLICANT: Laurie, Cathy C
FILE OF INVENTION: Soybean Polymorphisms and Methods of Genotyping
FILE REFERENCE: 38-15 (53382)
CURRENT APPLICATION NUMBER: US/60/480,590
CURRENT FILING DATE: 2003-06-20
NUMBER OF SEQ ID NOS: 6578
SOFTWARE: Patentin version 3.2
SEQ ID NO 6069
LENGTH: 840
TYPE: DNA
ORGANISM: Glycine max
US-60-480-590-6069
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Search completed: August 19, 2003, 17:17:54 Job time: 8143 secs
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Best Local Similarity 50.0%;
Matches 116; Conservative
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                                                                                                                                                                                                                                                                         1932 TAAAACAAACCTCGAATTTAAAGATGGTAAAGCAACCATTAATTTAAAAACAT 1983
                                                                                                                                                                                                                            1812 TAATTTAACATTGAGAAAACGGTGACTGGTTTAGCTGGTGACAGAACTAAAGATTTCCA 1871
                                                                                                                                                                                                        727 GTAAAAAAATTATTTACTGAATAATCAAATAAATTTTTTAATTGATAAAAT 778
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